

ABSTRACT

The invention relates to a variable reluctance analogue position device which is designed to determine the position variation of a target (1). The invention comprises a target (1) which is made from a ferromagnetic material and at least one magnet (2), the aforementioned target and magnet defining a gap (8) therebetween. The inventive device also comprises a magnetosensitive element (3) which detects the induction variation produced in the gap by the relative movement of the target (1) in relation to the magnet (2). The invention is characterised in that the magnet (2) is magnetised in a direction which is essentially perpendicular to the front surface (9) of the magnet, which defines one edge of the above-mentioned gap. The magnet comprises a cavity (10) which is open at the front surface (9) thereof and the magnetosensitive element (3) is housed in said cavity (10). Moreover, the target (1) is provided with a specific geometric configuration which is determined such that the induction variation according to the position of the target (1) corresponds to a pre-defined function. The invention also relates to a method of producing the aforementioned target (1).